

Claims

1. A coil form (1, 1.1) for forming an inductive element with a core (11.1, 11.2) and at least one coil, including
 - a) a hollow coil body (2) for insertion of the core, the coil body having an outer surface for holding the at least one coil (16) and
 - b) at least one separating plate (3, 3.1) which surrounds the outer surface of the coil body thereby dividing the surface into at least one coil area (15, 15.1), characterised in that
 - c) the coil body is made of plastic and
 - d) the separating plate is made of metal, having an opening (4) for pushing the separating plate over the coil body and having a slit (5) for prohibiting leakage currents within the separating plate.
2. A coil form according to claim 1, characterised in that the coil body includes a coil portion (6) of a kind of a hollow cylinder for slipping over the separating plate and a flange portion (7) on an end region of the coil portion.
3. A coil form according to claim 2, characterised in that the coil portion includes a recess (8) for positioning of the separating plate and in that the flange portion includes a plurality of terminals (9) where at least one terminal is electrically conductively connectable to an end of one of the at least two coils.
4. A coil form according to any of claims 1 to 3, characterised in that a shape of the opening (4) of the separating plate substantially corresponds to a shape of the outer surface of the coil body and in that an internal diameter of the separating plate is smaller than an outer diameter of the coil body.

5. A coil form according to any of claims 1 to 4, characterised in that the coil body comprises at least two elements (20.1, 20.2) with means (21, 22) to fit the elements together to form the coil body.
- 5 6. A coil form according to claim 5, characterised in that the coil body comprises a first and a second element (20.1, 20.2) and in that the means to fit the elements together include a recess (21) on the first element and a corresponding projection (22) on the second element.
7. A coil form according to any of claims 5 to 6, characterised in that the coil portion is of a kind of a right cylinder, where the coil body is separated into two elements by a plane being perpendicular to a base plane of the right cylindrical coil portion.
- 10 8. A coil form according to any of claims 1 to 7, characterised in that the separating plate forms a winding of one of the at least two coils.
9. An inductive element with a coil form according to any of claims 1 to 8, a core (11.1, 11.2) inserted into the hollow coil body and at least one coil, provided on the outer surface of the coil body.
- 15 10. An inductive element according to claim 9, characterised in that it includes a plurality of separating plates (3, 3.1), where preferably an isolation plate (19) is provided between two adjacent separating plates.
11. An inductive element according to any of claims 9 to 10, characterised in that at least one winding of the at least one coil is formed by the separating plate.
- 20 12. An inductive element according to any of claims 9 to 11, characterised in that the core (11.1, 11.2) of the inductive element has a shape of two rectangular portions

with a common edge (13), where the common edge is inserted into the hollow coil body and whereby the core preferably includes two E-shaped parts (11.1, 11.2).

- 5 13. A coil form having a hollow coil body for insertion of a core of an inductive element and having an outer surface for holding a coil of the inductive element, characterised in that the coil body includes at least two elements (20.1, 20.2) with means (21, 22) to fit the elements together to form the coil body.
- 10 14. A coil form according to claim 13, characterised in that the coil body includes a first and a second element (20.1, 20.2) and in that the means to fit the elements together include a recess (21) on the first element and a corresponding projection (22) on the second element.
- 15 15. A coil form according to any of claims 13 to 14, characterised in that the coil body includes a flange portion (7) and a coil portion (6) which is of a kind of a right cylinder, where the coil body (2) is separated into two elements (20.1, 20.2) by a plane being perpendicular to a base plane of the right cylindrical coil portion.
16. A coil form according to any of claims 13 to 15, characterised in that it includes an additional hollow outer coil body for insertion of the coil body and for pushing over the separating plate.